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EXAMINER

CHOJNACKI, MELLISSA M

ART UNIT

PAPER NUMBER

2164

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/609,483

Applicant(s)

MURASHITA, KIMITAKA

Examiner

Mellissa M. Chojnacki

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.


SAM RIMELL
PRIMARY EXAMINER

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Specification

The specification is object too because:

1. The abstract contains the phrase "such as" and "and the like". The abstract should not contain "such as" and "and the like". Correction is required.
2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Information Disclosure Statement

3. Applicant is asked to submit an Information disclosure statement and copies of the Applications and patents described in the "Description of Related Art" section of the Specification.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-30, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 11 and 21 recite the limitation "such as", which renders the claim vague and indefinite, because it is unclear as to what "such as" signifies in the claims.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-7, 9-17, 19-27 and 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freivald et al. (U.S. Patent No. 5,898,836) in view of Quintero et al. (U.S. Patent No. 6,910,071).

As to claim 1, Freivald et al. teaches an information collecting apparatus (See abstract) comprising:

a network connecting unit which connects to a network (See column 1, lines 9-11; column 3, lines 64-67; column 4, lines 1-6);

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an event collecting destination site registering unit which registers event collecting destination sites for detecting the presence or absence of an event which occurred on the network or in the real world (See abstract; column 3, lines 64-67; column 4, lines 1-30);

an information collecting destination site registering unit which registers information collecting destination sites for collecting documents including data such as text, image, audio sound, and the like (See abstract; column 3, lines 64-67; column 4, lines 1-30; column 3, lines 30-41; column 7, lines 59-65);

an event detecting unit which obtains information from the registered event collecting destination sites and detects the presence or absence of the occurrence of the event from the presence or absence of an update of the obtained information (See column 3, lines 64-67; column 4, lines 1-26).

Freivald et al. not teach a keyword extracting unit which extracts one or more keywords from an updating area detected by the event detecting unit; an information searching unit which searches the documents in the registered information collecting destination sites by using the keyword extracted by the keyword extracting unit; and an information notifying unit which notifies the user of a search result of the information searching unit.

Quintero et al. teaches surveillance monitoring and automated reporting method for detecting data changes (See abstract), in which he teaches a keyword extracting unit which extracts one or more keywords from an updating area detected by the event detecting unit (See column 4, lines 48-67; column 5, lines 1-6); an information searching

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unit which searches the documents in the registered information collecting destination sites by using the keyword extracted by the keyword extracting unit (See column 3, lines 1-16; column 4, lines 48-67; column 5, lines 1-6); and an information notifying unit which notifies the user of a search result of the information searching unit (See column 4, lines 48-67; column 5, lines 1-6).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to have modified Freivald et al., to include a keyword extracting unit which extracts one or more keywords from an updating area detected by the event detecting unit; an information searching unit which searches the documents in the registered information collecting destination sites by using the keyword extracted by the keyword extracting unit; and an information notifying unit which notifies the user of a search result of the information searching unit.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Freivald et al., by the teachings of Quintero et al. because a keyword extracting unit which extracts one or more keywords from an updating area detected by the event detecting unit; an information searching unit which searches the documents in the registered information collecting destination sites by using the keyword extracted by the keyword extracting unit; and an information notifying unit which notifies the user of a search result of the information searching unit would give the user an indication of how significant the change is and reduce the number of change notifications sent to the user and reduce storage requirements (See Freivald et al., column 3, lines 49-61).

As to claims 2, 12 and 22, Freivald et al. as modified, teaches wherein the event detecting unit accesses the event collecting destination site, downloads the document in the site, stores it as a reference, thereafter, detects the presence or absence of the event occurrence from the presence or absence of the update by comparing the document downloaded from the event collecting destination site with the reference, and updates the reference by using the downloaded document (See Freivald et al., abstract; column 2, lines 8-22; column 3, lines 64-67; column 4, lines 1-22); wherein in the event detecting step, the event collecting destination site is accessed, the document in the site is downloaded and stored as a reference, and thereafter, the presence or absence of the event occurrence is detected from the presence or absence of the update by comparing the document downloaded from the event collecting destination site with the reference (See Freivald et al., abstract; column 2, lines 8-22; column 3, lines 64-67; column 4, lines 1-22); wherein the event detecting step, the event collecting destination site is accessed, the document in the site is downloaded and stored as a reference, and thereafter, the presence or absence of the event occurrence is detected from the presence or absence of the update by comparing the document downloaded from the event collecting destination site with the reference (See Freivald et al., abstract; column 2, lines 8-22; column 3, lines 64-67; column 4, lines 1-22).

As to claims 3, 13 and 23, Freivald et al. as modified, teaches wherein the information searching unit accesses the information collecting destination site,

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downloads the document in the site, and searches a corresponding document portion by using the keyword from the downloaded document (See Freivald et al., abstract; column 2, lines 8-22; column 3, lines 64-67; column 4, lines 1-22; column 14, lines 48-59; also see Quintero et al., column 3, lines 1-16; column 4, lines 48-67; column 5, lines 1-6); wherein in the information searching step, the information collecting destination site is accessed, the document in the site is downloaded, and a corresponding document portion is searched by using the keyword from the downloaded document (See Freivald et al., abstract; column 2, lines 8-22; column 3, lines 64-67; column 4, lines 1-22; column 14, lines 48-59; also see Quintero et al., column 3, lines 1-16; column 4, lines 48-67; column 5, lines 1-6); wherein in the information searching step, the information collecting destination site is accessed, the document in the site is downloaded, and a corresponding document portion is searched by using the keyword from the downloaded document (See Freivald et al., abstract; column 2, lines 8-22; column 3, lines 64-67; column 4, lines 1-22; column 14, lines 48-59; also see Quintero et al., column 3, lines 1-16; column 4, lines 48-67; column 5, lines 1-6).

As to claims 4, 14 and 24, Freivald et al. as modified, teaches a document storing unit which stores the document obtained from the information collecting destination site by the information searching unit (See Freivald et al., abstract; column 2, lines 8-22; column 3, lines 64-67; column 4, lines 1-22; also see Quintero et al., column 1, lines 60-67; column 4, lines 48-51); a document storing step wherein the document obtained from the information collecting destination site by the information

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searching step is stored into a document storing unit (See Freivald et al., abstract; column 2, lines 8-22; column 3, lines 64-67; column 4, lines 1-22; also see Quintero et al., column 1, lines 60-67; column 4, lines 48-51); a document storing step wherein the document obtained from the information collecting destination site by the information searching step is stored into a document storing unit (See Freivald et al., abstract; column 2, lines 8-22; column 3, lines 64-67; column 4, lines 1-22; also see Quintero et al., column 1, lines 60-67; column 4, lines 48-51).

As to claims 5, 15 and 25, Freivald et al. as modified, teaches wherein the information searching unit periodically searches the documents in the registered information collecting destination sites for a predetermined period of time by using the keyword extracted by the keyword extracting unit (See Freivald et al., abstract; column 2, lines 8-22, lines 37-44; column 14, lines 48-59; column 15, lines 16-22, where “predetermined time period” is read on “week” or “frequently”; also see Quintero et al., column 3, lines 60-63); wherein in the information searching step, the number of searching times of the document search using the keyword is counted, if the number of searching times of the document after the elapse of a predetermined time exceeds a predetermined threshold value, the information search of the document by the keyword is again continued for a predetermined period of time, and if the number of searching times is equal to or less than the threshold value, the information search of the document by the keyword is stopped (See Freivald et al., abstract; column 2, lines 8-22, lines 37-44; column 14, lines 48-59; column 15, lines 16-22, where “predetermined time

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period" is read on "week" or "frequently"; also see Quintero et al., column 3, lines 60-63); wherein in the information searching step, the documents in the registered information collecting destination sites are periodically searched for a predetermined period of time by using the keyword extracted in the keyword extracting step (See Freivald et al., abstract; column 2, lines 8-22, lines 37-44; column 14, lines 48-59; column 15, lines 16-22, where "predetermined time period" is read on "week" or "frequently"; also see Quintero et al., column 3, lines 60-63).

As to claims 6, 16 and 26, Freivald et al. as modified, teaches wherein the event collecting destination site registering unit obtains the event collecting destination site from an event collecting destination list server via the network and registers it, and the information collecting destination site registering unit obtains the information collecting destination site from an information collecting destination list server via the network and registers it (See Freivald et al., abstract; column 2, lines 8-22; column 3, lines 64-67; column 4, lines 1-22); wherein in the event collecting destination site registering step, the event collecting destination site is obtained from an event collecting destination list server via the network and registered, and in the information collecting destination site registering step, the information collecting destination site is obtained from an information collecting destination list server via the network and registered (See Freivald et al., abstract; column 2, lines 8-22; column 3, lines 64-67; column 4, lines 1-22); wherein in the event collecting destination site registering step, the event collecting destination site is obtained from an event collecting destination list server via the

network and registered, and in the information collecting destination site registering step, the information collecting destination site is obtained from an information collecting destination list server via the network and registered (See Freivald et al., abstract; column 2, lines 8-22; column 3, lines 64-67; column 4, lines 1-22).

As to claims 7, 17 and 27, Freivald et al. as modified, teaches wherein the event collecting destination site registering unit obtains event collecting destination sites from another information collecting apparatus having the same construction via the network and registers them, and the information collecting destination site registering unit obtains information collecting destination sites from the information collecting apparatus having the same construction via the network and registers them (See Freivald et al., column 2, lines 37-48; column 6, lines 20-32); wherein in the event collecting destination site registering step, event collecting destination sites are obtained from another information collecting apparatus having the same construction via the network and registered, and in the information collecting destination site registering step, information collecting destination sites are obtained from the information collecting apparatus having the same construction via the network and registered (See Freivald et al., column 2, lines 37-48; column 6, lines 20-32); wherein in the event collecting destination site registering step, event collecting destination sites are obtained from another information collecting apparatus having the same construction via the network and registered, and in the information collecting destination site registering step, information collecting destination sites are obtained from the information collecting apparatus

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having the same construction via the network and registered (See Freivald et al., column 2, lines 37-48; column 6, lines 20-32).

As to claims 9, 19 and 29, Freivald et al. as modified, teaches wherein if only new information has been added to the updating area of the event collecting destination site in which the event occurrence has been detected, the event detecting unit stores a history of the new information, and if old information was deleted simultaneously with the addition of the new information to the updating area, the event detecting unit stores the history of the new information and a history of the deleted information and the information notifying unit is enabled to notify the user of the stored histories (See Freivald et al., column 2, lines 37-48; column 6, lines 20-46); wherein in the event detecting step, if only new information has been added to the updating area of the event collecting destination site in which the event occurrence has been detected, a history of the new information is stored, and if old information was deleted simultaneously with the addition of the new information to the updating area, the history of the new information and a history of the deleted information are stored and the information notifying unit is enabled to notify the user of the stored histories (See Freivald et al., column 2, lines 37-48; column 6, lines 20-46); wherein in the event detecting step, if only new information has been added to the updating area of the event collecting destination site in which the event occurrence has been detected, a history of the new information is stored, and if old information was deleted simultaneously with the addition of the new information to the updating area, the history of the new information and a history of the deleted

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information are stored and the information notifying unit is enabled to notify the user of the stored histories (See Freivald et al., column 2, lines 37-48; column 6, lines 20-46).

As to claims 10, 20 and 30, Freivald et al. as modified, teaches wherein if only new information has been added to the updating area of the event collecting destination site in which the event occurrence has been detected, the event detecting unit stores the keyword extracted by the keyword extracting unit as a history of the new information, and if old information was deleted simultaneously with the addition of the new information to the updating area, the event detecting unit stores the keyword extracted by the keyword extracting unit as a history of the new information and a history of the deleted information and the information notifying unit is enabled to notify the user of the keyword as stored histories (See Freivald et al., column 2, lines 37-48; column 6, lines 20-32; also see Quintero et al., column 4, lines 48-67; column 5, lines 1-6); wherein in the event detecting step, if only new information has been added to the updating area of the event collecting destination site in which the event occurrence has been detected, the keyword extracted in the keyword extracting step is stored as a history of the new information, and if old information was deleted simultaneously with the addition of the new information to the updating area, the keyword extracted by the keyword extracting unit is stored as a history of the new information and a history of the deleted information and the information notifying unit is enabled to notify the user of the keyword as stored histories (See Freivald et al., column 2, lines 37-48; column 6, lines 20-32; also see Quintero et al., column 4, lines 48-67; column 5, lines 1-6); wherein in

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the event detecting step, if only new information has been added to the updating area of the event collecting destination site in which the event occurrence has been detected, the keyword extracted in the keyword extracting step is stored as a history of the new information, and if old information was deleted simultaneously with the addition of the new information to the updating area, the keyword extracted in the keyword extracting step is stored as a history of the new information and a history of the deleted information and the information notifying unit is enabled to notify the user of the keyword as stored histories (See Freivald et al., column 2, lines 37-48; column 6, lines 20-32; also see Quintero et al., column 4, lines 48-67; column 5, lines 1-6).

As to claim 11, Freivald et al. teaches a program for allowing a computer to execute (See abstract):

an event collecting destination site registering step wherein event collecting destination sites for detecting the presence or absence of an event occurring on a network or in the real world are registered by an event collecting destination site registering unit (See column 1, lines 9-11; column 3, lines 64-67; column 4, lines 1-30); an information collecting destination site registering step wherein information collecting destination sites for collecting documents including data such as text, image, audio sound, and the like are registered by an information collecting destination site registering unit (See abstract; column 3, lines 64-67; column 4, lines 1-30; column 3, lines 30-41; column 7, lines 59-65); an event detecting step wherein information is obtained from the registered event collecting destination sites and the presence or

absence of event occurrence is detected by an event detecting unit on the basis of the presence or absence of update of the obtained information (See column 3, lines 64-67; column 4, lines 1-26).

Freivald et al. not teach a keyword extracting step wherein one or more keywords are extracted by a keyword extracting unit from an updating area detected in the event detecting step; an information searching step wherein the documents in the registered information collecting destination sites are searched by an information searching unit by using the keyword extracted in the keyword extracting step; and an information notifying step wherein the user is notified of a search result of the information searching step by an information notifying unit.

Quintero et al. teaches surveillance monitoring and automated reporting method for detecting data changes (See abstract), in which he teaches a keyword extracting step wherein one or more keywords are extracted by a keyword extracting unit from an updating area detected in the event detecting step (See column 4, lines 48-67; column 5, lines 1-6); an information searching step wherein the documents in the registered information collecting destination sites are searched by an information searching unit by using the keyword extracted in the keyword extracting step (See column 3, lines 1-16; column 4, lines 48-67; column 5, lines 1-6); and an information notifying step wherein the user is notified of a search result of the information searching step by an information notifying unit (See column 4, lines 48-67; column 5, lines 1-6).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to have modified Freivald et al., to include a

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keyword extracting step wherein one or more keywords are extracted by a keyword extracting unit from an updating area detected in the event detecting step; an information searching step wherein the documents in the registered information collecting destination sites are searched by an information searching unit by using the keyword extracted in the keyword extracting step; and an information notifying step wherein the user is notified of a search result of the information searching step by an information notifying unit.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Freivald et al., by the teachings of Quintero et al. because a keyword extracting step wherein one or more keywords are extracted by a keyword extracting unit from an updating area detected in the event detecting step; an information searching step wherein the documents in the registered information collecting destination sites are searched by an information searching unit by using the keyword extracted in the keyword extracting step; and an information notifying step wherein the user is notified of a search result of the information searching step by an information notifying unit would give the user an indication of how significant the change is and reduce the number of change notifications sent to the user and reduce storage requirements (See Freivald et al., column 3, lines 49-61).

As to claim 21, Freivald et al. teaches an information collecting apparatus (See abstract) comprising:

an event collecting destination site registering step wherein event collecting destination sites for detecting the presence or absence of an event occurring on a network or in the real world are registered (See column 1, lines 9-11; column 3, lines 64-67; column 4, lines 1-30); an information collecting destination site registering step wherein information collecting destination sites for collecting documents including data such as text, image, audio sound, and the like are registered (See abstract; column 3, lines 64-67; column 4, lines 1-30; column 3, lines 30-41; column 7, lines 59-65); an event detecting step wherein information is obtained from the registered event collecting destination sites and the presence or absence of event occurrence is detected on the basis of the presence or absence of update of the obtained information (See column 3, lines 64-67; column 4, lines 1-26).

Freivald et al. not teach a keyword extracting step wherein one or more keywords are extracted from an updating area detected in the event detecting step; an information searching step wherein the documents in the registered information collecting destination sites are searched by using the keyword extracted in the keyword extracting step; and an information notifying step wherein the user is notified of a search result of the information searching step.

Quintero et al. teaches surveillance monitoring and automated reporting method for detecting data changes (See abstract), in which he teaches a keyword extracting step wherein one or more keywords are extracted from an updating area detected in the event detecting step (See column 4, lines 48-67; column 5, lines 1-6); an information searching step wherein the documents in the registered information collecting

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destination sites are searched by using the keyword extracted in the keyword extracting step (See column 3, lines 1-16; column 4, lines 48-67; column 5, lines 1-6); and an information notifying step wherein the user is notified of a search result of the information searching step (See column 4, lines 48-67; column 5, lines 1-6).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to have modified Freivald et al., to include a keyword extracting step wherein one or more keywords are extracted from an updating area detected in the event detecting step; an information searching step wherein the documents in the registered information collecting destination sites are searched by using the keyword extracted in the keyword extracting step; and an information notifying step wherein the user is notified of a search result of the information searching step.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Freivald et al., by the teachings of Quintero et al. because a keyword extracting step wherein one or more keywords are extracted from an updating area detected in the event detecting step; an information searching step wherein the documents in the registered information collecting destination sites are searched by using the keyword extracted in the keyword extracting step; and an information notifying step wherein the user is notified of a search result of the information searching step would give the user an indication of how significant the change is and reduce the number of change notifications sent to the user and reduce storage requirements (See Freivald et al., column 3, lines 49-61).

8. Claims 8, 18 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freivald et al. (U.S. Patent No. 5,898,836) in view of Quintero et al. (U.S. Patent No. 6,910,071), in further view of Song et al. (U.S. Patent Application No. 2002/0078044).

As to claims 8, 18 and 28, Freivald et al. as modified, does not teach wherein the keyword extracting unit morpheme-analyzes the updating area detected by the event detecting unit, divides it every part of speech, thereafter, extracts only proper nouns, and if the extracted nouns are different from existing keywords registered in a keyword database, outputs the extracted proper nouns as keywords to the information searching unit; wherein in the keyword extracting step, the updating area detected in the event detecting step is morpheme-analyzed and divided every part of speech, thereafter, only proper nouns are extracted, and if the extracted nouns are different from existing keywords registered in a keyword database, the extracted proper nouns are outputted as keywords to the information searching step; wherein in the keyword extracting step, the updating area detected in the event detecting step is morpheme-analyzed and divided every part of speech, thereafter, only proper nouns are extracted, and if the extracted nouns are different from existing keywords registered in a keyword database, the extracted proper nouns are outputted as keywords to the information searching step.

Song et al. teaches a system for automatically classifying documents by category learning using a genetic algorithm and a term cluster and method thereof (See

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abstract), in which he teaches wherein the keyword extracting unit morpheme-analyzes the updating area detected by the event detecting unit, divides it every part of speech (See paragraph 0017; paragraph 0031; paragraph 0035), thereafter, extracts only proper nouns (See paragraph 0017; paragraph 0031; paragraph 0035), and if the extracted nouns are different from existing keywords registered in a keyword database, outputs the extracted proper nouns as keywords to the information searching unit (See paragraph 0017; paragraph 0031; paragraph 0035); wherein in the keyword extracting step, the updating area detected in the event detecting step is morpheme-analyzed and divided every part of speech, thereafter, only proper nouns are extracted, and if the extracted nouns are different from existing keywords registered in a keyword database, the extracted proper nouns are outputted as keywords to the information searching step (See paragraph 0017; paragraph 0031; paragraph 0035); wherein in the keyword extracting step, the updating area detected in the event detecting step is morpheme-analyzed and divided every part of speech, thereafter, only proper nouns are extracted, and if the extracted nouns are different from existing keywords registered in a keyword database, the extracted proper nouns are outputted as keywords to the information searching step (See paragraph 0017; paragraph 0031; paragraph 0035).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to have modified Freivald et al. as modified, to include a keyword extracting unit which extracts one or more keywords from an updating area detected by the event detecting unit; an information searching unit which searches the documents in the registered information collecting destination sites by

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using the keyword extracted by the keyword extracting unit; and an information notifying unit which notifies the user of a search result of the information searching unit.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Freivald et al. as modified by the teachings of Song et al. because a keyword extracting unit which extracts one or more keywords from an updating area detected by the event detecting unit; an information searching unit which searches the documents in the registered information collecting destination sites by using the keyword extracted by the keyword extracting unit; and an information notifying unit which notifies the user of a search result of the information searching unit would give the user an indication of how significant the change is and reduce the number of change notifications sent to the user and reduce storage requirements (See Freivald et al., column 3, lines 49-61).

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mellissa M. Chojnacki whose telephone number is (571) 272-4076. The examiner can normally be reached on 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on (571) 272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Mmc


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